

Experiment Number: 20614 - 02
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Perfluorooctanoic Acid

CAS Number: 335-67-1

Date Report Requested: 06/14/2018

Time Report Requested: 21:36:12

First Dose M/F: 07/27/09 / NA

Lab: BAT

SSAC Males 0-80, 300-80

NTP Study Number: C20614B
Lock Date: 01/10/2012
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25017 SSAC
Removal Date Range: ALL
Treatment Groups: Include 007 0/80 ppm
Study Gender: Male
TDMSE Version: 2.5.0.0_sfh
PWG Approval Date: NONE

Include 008 300/80 ppm

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
LAST REMOVAL AT 16 WEEKS**

Males

DOSE	0/80 ppm	300/80 ppm
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Liver
Clear Cell Focus

LESION RATES

OVERALL (a)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	2/10.00
POLY-3 PERCENT (g)	10%	20%
INT SACRIFICE 1	1/10 (10%)	2/10 (20%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	108 (I)	108 (I)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.274

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Males

DOSE	0/80 ppm	300/80 ppm
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Liver
Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
INT SACRIFICE 1	1/10 (10%)	0/10 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	108 (I)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

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Males

DOSE	0/80 ppm	300/80 ppm
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Liver
Inflammation Focal

LESION RATES

OVERALL (a)	8/10 (80%)	8/10 (80%)
POLY-3 RATE (b)	8/10.00	8/10.00
POLY-3 PERCENT (g)	80%	80%
INT SACRIFICE 1	8/10 (80%)	8/10 (80%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	108 (I)	108 (I)

STATISTICAL TESTS

POLY 3	P=0.702
POLY 1.5	P=0.702
POLY 6	P=0.702
COCH-ARM / FISHERS	P=0.709N
MAX-ISO-POLY-3	P=1.000

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LAST REMOVAL AT 16 WEEKS**

Males

DOSE	0/80 ppm	300/80 ppm
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Liver
Necrosis

LESION RATES

OVERALL (a)	4/10 (40%)	1/10 (10%)
POLY-3 RATE (b)	4/10.00	1/10.00
POLY-3 PERCENT (g)	40%	10%
INT SACRIFICE 1	4/10 (40%)	1/10 (10%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	108 (I)	108 (I)

STATISTICAL TESTS

POLY 3	P=0.148N
POLY 1.5	P=0.148N
POLY 6	P=0.148N
COCH-ARM / FISHERS	P=0.152N
MAX-ISO-POLY-3	P=0.058N

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Males

DOSE	0/80 ppm	300/80 ppm
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Liver
Pigment

LESION RATES

OVERALL (a)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	9/10.00	10/10.00
POLY-3 PERCENT (g)	90%	100%
INT SACRIFICE 1	9/10 (90%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	108 (I)	108 (I)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

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LAST REMOVAL AT 16 WEEKS**

Males

DOSE	0/80 ppm	300/80 ppm
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Liver: Hepatocyte
Cytoplasmic Alteration

LESION RATES

OVERALL (a)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%
INT SACRIFICE 1	10/10 (100%	10/10 (100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	108 (I)	108 (I)

STATISTICAL TESTS

POLY 3	(e)
POLY 1.5	(e)
POLY 6	(e)
COCH-ARM / FISHERS	(e)
MAX-ISO-POLY-3	(e)

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LAST REMOVAL AT 16 WEEKS**

Males

DOSE	0/80 ppm	300/80 ppm
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Liver: Hepatocyte
Hypertrophy

LESION RATES

OVERALL (a)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%
INT SACRIFICE 1	10/10 (100%)	10/10 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	108 (I)	108 (I)

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POLY 3	(e)
POLY 1.5	(e)
POLY 6	(e)
COCH-ARM / FISHERS	(e)
MAX-ISO-POLY-3	(e)

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Males

DOSE	0/80 ppm	300/80 ppm
------	----------	------------

Liver: Hepatocyte
Single Cell Death

LESION RATES

OVERALL (a)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	10/10.00
POLY-3 PERCENT (g)	100%	100%
INT SACRIFICE 1	10/10 (100%	10/10 (100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	108 (I)	108 (I)

STATISTICAL TESTS

POLY 3	(e)
POLY 1.5	(e)
POLY 6	(e)
COCH-ARM / FISHERS	(e)
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LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***